SABA Service-Schaltbild | FF 239

Schema di servizio · Service circuit diagram · Documentation technique

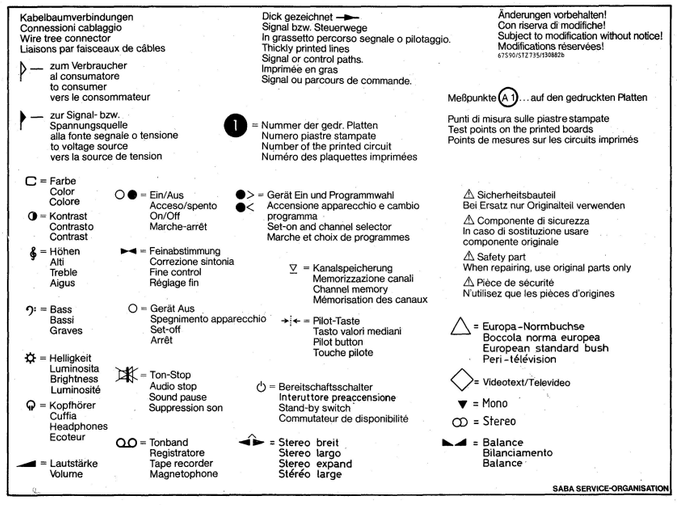
Service-Einstellungen · Regolazioni di servizio · Service Adjustments · Réglages de service

Pos. No.	Pos. No. (1) ... (32) Seite/Pagina/Page 1/2
(28)	**Hauptspannung, Tensione principale, Principal voltage, Tension principale** } +145 V U1 1. ◑ ☼ min. 2. PP01=145 V ± 1 V (H2)
(24) (25)	**H. Frequ., Frequ. orizz.** 1. (L 4) 2. PL 02
(17)	**V. Frequ., Frequ. vert.** PF 01
(26) (30)	PG 01 PF 02 H.-Ampl. V.-Ampl.
(32) (31)	PL 01 PF 04 H.-Pos. V.-Pos.
(27) (29)	PG 03 PG 02 O/W-Ampl. O/W-Trapez

Pos. No.	Pos. No. (1) ... (32) Seite/Pagina/Page 1/2
(15)	**5,5 MHz min.** 1. Oscilloscope (Z9) 2. LV07: 5,5 MHz min.
(21)	**Referenz-Oszillator 4,43 MHz** **Oscillatore riferimento** A) FUBK Sendertestbild Monoscopio del trasmettitore FUBK transmitter test pattern Mire d'émetteur CC 14: +V, ± U farblos, senza colore, not coloured, sans couleur **oder, o, or, ou** B) Farbtestbild, Segnale barre colore, Color bar signal, mire a barres couleur 1. (2) (3) 2. (1) ← 4,2 ... 4,4 V extern
(21)	3. CC 14: langsames Durchlaufen der Farbbalken barre colori movimento lento until the color bars wander slowly les barres couleur défilent lentement
(22) (23)	**PAL-Ampl.:** PC 01 **Amp. PAL** **PAL-Phase:** LC 05 **Fase PAL** } Paarigkeit, Parità, Pairing, effet jalousie min.

Pos. No.	Pos. No. (1) ... (32) Seite/Pagina/Page 1/2
	Schirmgitterspannung, Tensione griglia schermo, Screen grid voltage, Tension grille 1. ◑ + ☼ = min. 2. (Z8), (Z7), (Z9) messen, misurare, measure, mesurer. 3. PU_{G2}: Katode mit der höchsten Spannung auf 160 V– einstellen. Regolare il catodo con la tensione più alta su 160 V–. Adjust the cathode with the highest voltage to 160 V DC. Régler la catode avec la plus grande tension à 160 V=.
(10) (9)	**Grauabgleich, Taratura dei grigi, Gray alignment, Règlage du gris** 1. ◑ = min. 2. ☼ = 1/2 3. PV 50 rot, rosso, red, rouge PV 70 blau, blu, blue, bleu
(19) (18) (20)	**Weißabgleich, Taratura del bianco, White Adjustment, Valeur du blanc** Schwarz/weiß-Testbild 100% weiß Monoscopio bianco/nero con bianco 100% Monochrome test pattern 100% white Mire noir/blanc avec blanc de 100% 1. ◑ = max. 2. ☼ = 1/2 3. Oscilloscope (Z7) 4. PV03 (grün, verde, green, vert): 100 V_{BA} 5. PV06 rot, rosso, red, rouge } weiß, bianco PV04 blau, blu, blue, bleu } white, blanc

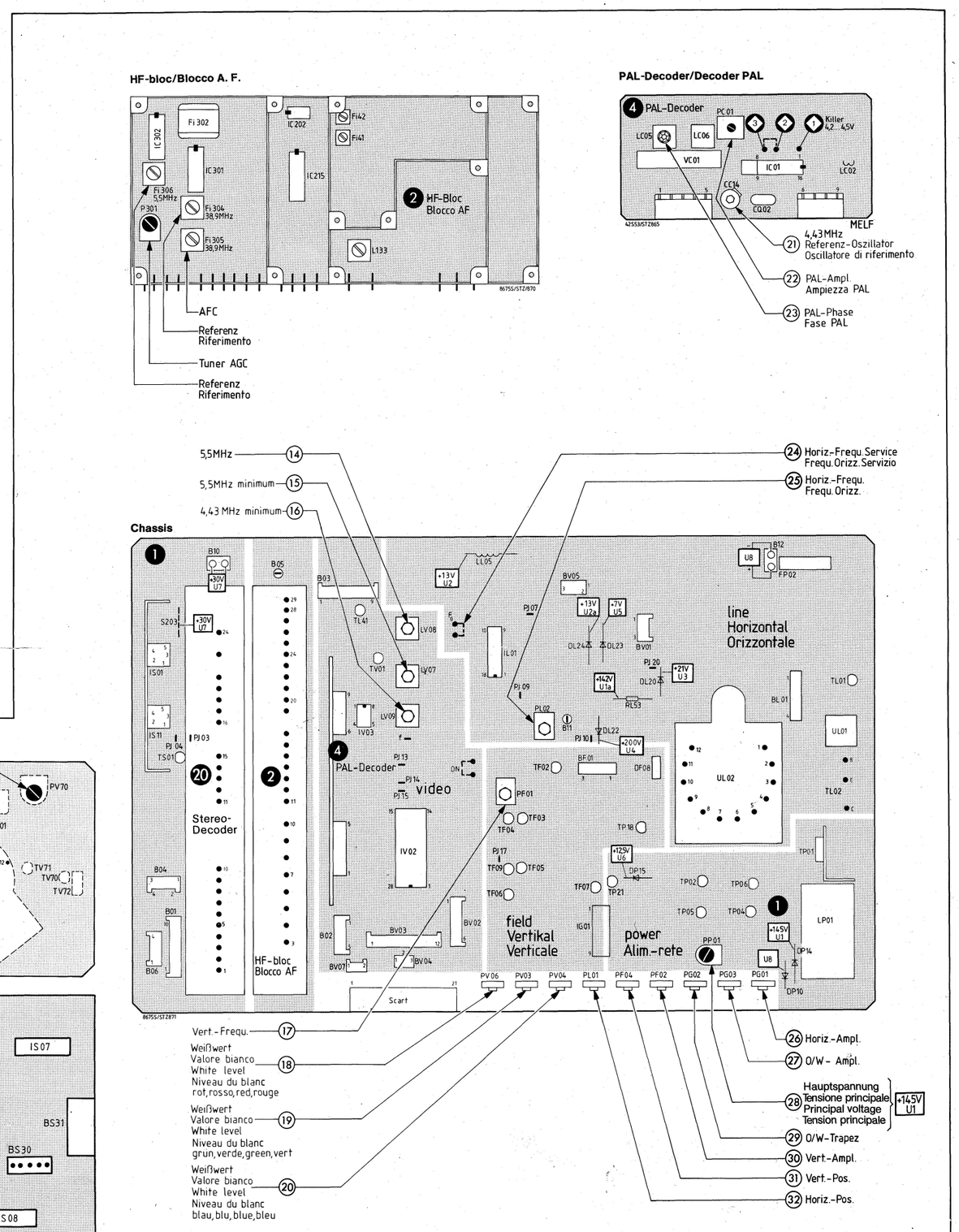
Erklärung der im Schaltbild verwendeten Symbole.
Spiegazione dei simboli usati in questo schema.
Explanation of the symbols used in the circuit diagram.
Légende des symboles utilisés dans le schéma de montage.

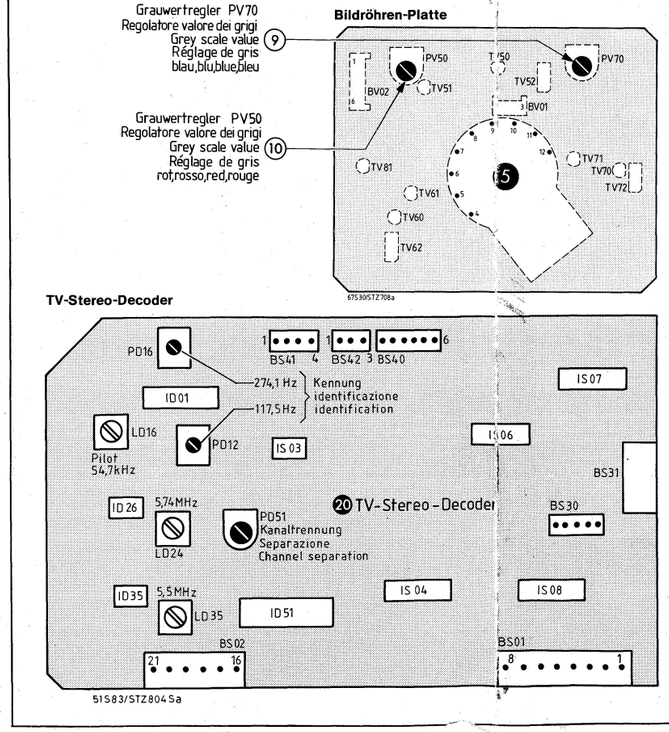


Bauteilekennzeichnung der Funktionsstufen
Codice componenti con sigla dello stadio
Signification of components of the stages
Désignation des composants et des circuits

RC, **CC**, **DC**, **TC**, **LC**	etc.	→ **C**hroma	(PAL-Decoder, Decoder PAL)
RF, **CF**, **DF**, **TF**, **LF**	etc.	→ **F**rame	(Vertikal, verticale)
RL, **CL**, **DL**, **TL**, **LL**	etc.	→ **L**ine	(Horizontal, orizzontale)
RP, **CP**, **DP**, **TP**, **LP**	etc.	→ **P**ower	(Netzteil, alim. rete)
RS, **CS**, **DS**, **TS**, **LS**	etc.	→ **S**ound	(Audio)
RV, **CV**, **DV**, **TV**, **LV**	etc.	→ **V**ideo	(Video)

Service-Lageplan · Posizione regolatori di servizio · Layout diagram · Disposition des régleurs





1 Chassis
Telaio
Chassis
Chassis

6 Netzteilplatte
Piastra di rete
Mains board
Platine secteur

8 Telecommander TC 356

10 Steuerplatte VII No. 81850 332 00
Piastra pilotaggio VII
Control system VII
Platine de commande VII

11 Tastenplatte III
Piastra tasti III
Key-board III
Platine de commutation III

12 IR-Vorverstärker
Preamplificatore IR
IR pre-amplification
Préamplification
No. 81850 352 00

20 TV-Stereo-Decoder
TV-Decoder Stereo
No. 82960 418 00

28 Reglerplatte I
Piastra regolatori I
Control panel I
Platine potentiomètres I

67581/ST2682/270483

12

11

10

20 BS40

8 TC356 telecommander

ROM
2048×10 bit (memory/memoria)
128×10 bit (memory/memoria)
4096×10 bit ■

HD 44 801 B07
HD 44 804 A15 ■
IR 01

ST
4×11 bit
4×12 bit ■

PC 11 bit/12 bit ■

Decoder

CPG
clock plus generator
generatore ritmo

ACL
Power on reset tensione inserimento ripristina

ALU

RAM
160×4 bit
256×4 bit ■

Bit Manipulation bit manipolazione

Counter/Contatore

Interrupt/ interrompere

D latch (16 bit) registro di intercettazione

Data dati

Clock ritmo

AV (Pr.10,20,30) = 0V
TV = 4,6V

Enable consenso

ON/acceso = 4,8V
OFF/spento = 0V

AV extern = 4,8V
TV = 0V

AV extern = 12,6V
TV = 15,3V

esterno
AV extern = 13V
TV = 0V

Clock/ritmo

VT-Data/dati

VT 02

SAA 3004 P/2
IB01

11 bit

7×7 (8×8)

7×7 (8×8)

HD1131R
DR01

HD1131R
DR02

CQY 86N/B
DR03

CQY 86N/B
DR04

Digit 1

Digit 2

2,4V ON/acceso

5,2V OFF
Spento
4,9V ON
Acceso

3×BC548C

4×BC548C

Segm.g
Segm.f
Segm.e
Segm.d
Segm.c
Segm.b
Segm.a
dp

R 00
R 01
R 02
R 03

R 0
R 1
R 2
R 3
R 4
R 5

INT0
INT1

+5,7V U11
+7V U5
+13V U9
+12,5V U12
+13V U2
+5V U5

= 16 Programme/16 Programma
■ = 39 Programme/39 Programma
RR001... = MELF

Änderungen vorbehalten!
Con riserva di modifiche!
Subject to modification without notice!
Modifications réservées!
67 581/ST2 883/280483

SABA SERVICE-ORGANISATION

❶ Chassis
Telaio
Chassis
Chassis

❷ MTS 2020 S — HF-bloc quasi parallel / Blocco A.F. quasi parallelo — No. 80946 100 00

❹ PAL-Decoder
Decoder PAL — No. 81905 006 00

❺ Bildröhren-Platte
Piastra cinescopio
CRT-Board
Platine du tube-image — No. 81150 055 00

❻ Netzteilplatte
Piastra di rete
Mains board
Platine secteur

⓴ TV-Stereo-Decoder
TV-Decoder Stereo — No. 82960 418 00

㉓ Kopfhörerplatte IV
Piastra cuffia IV
Headphone board IV
Platine prise casque IV

㉘ Reglerplatte I
Piastra regolatori I
Control panel I
Platine potentiomètres I

67581/STZ885/280483

Bandumschaltung
Commutazione di banda
Band switch
Changement de gammes d'ondes

Tuner

	①	②	③
Bd I	L	H	L
Bd III	H	H	L
Bd IV/V	L	L	H

UHF-pre stage
Prestadio UHF

VHF-pre stage
Prestadio VHF

UHF-oscillator mixer
Osc.miscelatore UHF

VHF-mixer-stage
Stadio miscelatore VHF

VHF-oscillator
Oscillatore VHF

❷ HF-bloc/Blocco A F

prescaler/Divisore

SDA 2101
IC 202

PLL

SDA 2002
IC 215

divider factor
divisore

picture IF amplifier
Amplificatore F.I. video

TDA 2541
IC 301

TDA 2545
IC 302

quasi parallel sound amplifier
Amplificatore audio quasi parallelo

Identification
Identificazione

TDA 2795
ID 01

Matrix
Matrice

MC 14052 BCP
IS 04

MC 3303 P
IS 06

MC 14052 BCP
IS 07

TA 7630 P/IS 08

sound control
Controllo suono

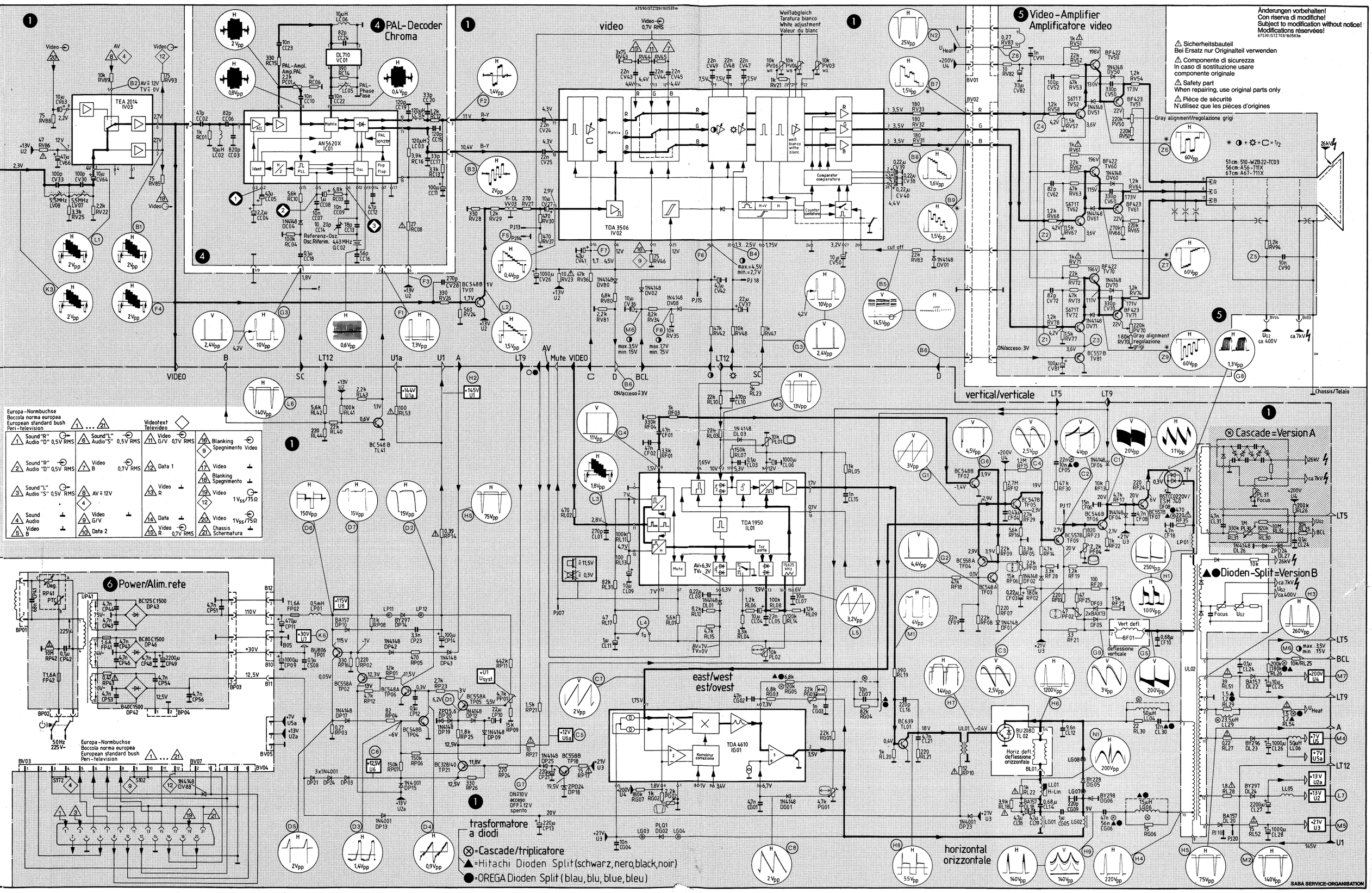
Sound Mode selection
intern/extern
Cambio BF
interno/esterno

Mode selection
Interruttore cambio NF

IS07	Pin 9	Pin 10	
——	H	L	15 → 13 2 → 3
——	L	L	12 → 13 1 → 3
⊂⊃	L	H	16 → 13 5 → 3
▼/KI/KII	H	H	11 → 13 4 → 3

⊂⊃ Stereo
▼ Mono
KI Kanal 1
KII Kanal 2

67581/ST2884/280483


video
Video 0,7V RMS
Weißabgleich
Taratura bianco
White adjustment
Valeur du blanc
4 PAL-Decoder Chroma
TEA 2014 IV03
AN5620X IC01
TDA 3506 IV02
5 Video-Amplifier
Amplificatore video
Änderungen vorbehalten!
Con riserva di modifiche!
Subject to modification without notice!
Modifications réservées!
67530/ST2703/160583m
⚠ Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden
⚠ Componente di sicurezza
In caso di sostituzione usare componente originale
⚠ Safety part
When repairing, use original parts only
⚠ Pièce de sécurité
N'utilisez que les pièces d'origines
Gray alignment/regolazione grigi
51cm: 510-WZB22-TC03
56cm: A56-711X
67cm: A67-711X
6 Power/Alim.rete
50Hz 225V~
Europa-Normbuchse
Boccola norma europea
European standard bush
Peri-television
Videotext
Televideo
1 Sound "R" Audio "D" 0,5V RMS
2 Sound "R" Audio "D" 0,5V RMS
3 Sound "L" Audio "S" 0,5V RMS
4 Sound Audio
5 Video B
6 Sound "L" Audio "S" 0,5V RMS
7 Video B 0,7V RMS
8 AV ≙ 12V
9 Video G/V
10 Data 2
11 Video G/V 0,7V RMS
12 Data 1
13 Video R
14 Data
15 Video R 0,7V RMS
16 Blanking Spegnimento Video
17 Video
18 Blanking Spegnimento
19 Video 1Vss/75Ω
20 Video 1Vss/75Ω
21 Chassis Schermatura
trasformatore a diodi
⊗=Cascade/triplicatore
▲=Hitachi Dioden Split (schwarz, nero, black, noir)
●=OREGA Dioden Split (blau, blu, blue, bleu)
⊗ Cascade=Version A
▲●Dioden-Split=Version B
vertical/verticale
horizontal orizzontale
east/west est/ovest
SABA SERVICE-ORGANISATION